


Zach Azar

Principal Software Engineer

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 Albuquerque, NM

 B.S. and M.S. in Computer Science

Summary

- Driven principal engineer and technical leader with startup and management experience.
- Versatile full-stack skill set with a strong, academic foundation in Computer Science.
- Self-motivated contributor who takes initiative and can work with teams to solve any problem.

Technologies and Languages

- Backend: Node.js, MongoDB, Heroku, Express, AWS, Redis, REST APIs, Elasticsearch, Postgres, MySQL
- Frontend: React, Redux, Svelte, D3, Bootstrap, JavaScript, HTML, CSS, SASS, Webpack, jQuery
- Other tools: Git, npm, Jira, Agile and Scrum, Slack Automation, Unix, Object-Oriented Design, Responsive Web Design, Software Architecture, Distributed Systems

Work Experience

Autodesk, Remote

Principal Engineer, Data Platforms and Insights, October 2020 – May 2022

On the software side:

- Similar to a software architect, I consulted multiple internal teams across different countries on scaling their web applications, building robust monitoring, improving coding patterns, and integrating CI/CD.
- Laid out technical foundations for projects and engineered alongside the teams using various technologies including AWS, Postgres, React, Node.js, Python, and TypeScript.

On the data side:

- Identified issues and developed solutions for automating, monitoring, and testing aging data pipelines.
- Improved coding patterns for repositories using Spark, Python, Oozie, Jenkins, PySpark, S3, and Qubole.

Principal Engineer and Team Lead, Backend Platform Team, July 2019 – October 2020

- Drove initiatives to secure and scale our backend infrastructure and coding patterns.
- Consulted feature teams on advanced topics in Node.js, Heroku, and MongoDB.
- At times, I also lead our team of 6 and thus focused on people management and strategic planning.

BuildingConnected, San Francisco, CA (Acquired by Autodesk in January 2019)

Engineering Manager, June 2018 – July 2019

- Lead engineering initiatives for our subcontractor product ([Bid Board](#)).
- Coached team leads for two full-stack feature teams and one growth team.

Engineering Lead, September 2017 – June 2018

- Assisted the team by unblocking team members, reviewing production code, and collaborating with Product and Design to break down large problems into parallelizable tasks.

Full-Stack Engineer, September 2016 – September 2017

- Implemented technical solutions including a denormalization engine to power materialized views in MongoDB, a standalone printing service, and BE/FE features for our paid subcontractor product.
- Specialized mostly in backend systems, complex data models, and migrations in Node.js and MongoDB.

Lever Insights, LLC, Seattle, WA

Co-Founder and Lead Engineer, February – July 2016

- Designed a full-stack solution for a data visualization web application for the restaurant industry.
- Developed the single-page application using Node.js, Express, AngularJS, D3, Bootstrap, and Sass.

University of Denver, CO: Graduate Teaching Assistant, September 2013 – September 2015

New Signature, NM: Software Engineer, November 2012 – June 2013

OVATION, Inc., TN: Technology Specialist, January – May 2012

Institute for Software Integrated Systems, TN: Software Research Intern, Summer 2010

Visible Light Solar Technologies, NM: Software Engineering Intern, Summer 2009